QC ABSTRACT

NAME OF WORK: Package 02 Includes 2 Works of Rs.133.00 Lakhs 1) Improvements to Drains 1st to 3rd Cross Roads in Amruthanagar A Sector in Ward No.07 Byatarayanapura. Est Cost Rs.85 Lakhs 2) Improvements to Drains From 15th Cross in Jakkur Layout and Construction of Rainwater Units and Desilting of Drains in Ward No.07 Byatarayanapura Est Cost Rs.48.00 Lakhs

SL NO	Item Of Work	Name of Test	Frequency of Test/Quantity	Executed Quantity	Number of Tests Required	Number of Tests Conducted
		Materials				
1	Cement	Fineness by dry sieving	One Test		1	1
		Finess by Air permeablity method	One Test		1	1
		Density	One Test		1	1
		Standard Consistency	One Test		1	1
		Initial Setting time	One Test		1	1
		Final Setting time	One Test		1	1
		Soundness (Le Chatelier's Method)	One Test		1	1
		Compressive Strength	One Test		1	1
2	Coarse aggregate(40 mm down size)	SIEVE ANALYSIS	One Test		1	1
		Flakiness Index	One Test		1	1
		Elongation Index	One Test		1	1
		Specific Gravity	One Test		1	1
		Bulk Density(Loose)	One Test		1	1
		Bulk Density(Compacted)	One Test		1	1
		Water Absorption	One Test		1	1
3	Coarse aggregate(20 mm down size)	SIEVE ANALYSIS	One Test		1	1
		Flakiness Index	One Test		1	1
		Elongation Index	One Test		1	1
		Specific Gravity	One Test		1	1
		Bulk Density(Loose)	One Test		1	1
		Bulk Density(Compacted)	One Test		1	1
		Water Absorption	One Test		1	1
		Aggregate crushing Value	One Test		1	1
		Aggregate Impact Value	One Test		1	1
4	Fine aggregate	SIEVE ANALYSIS	One Test		1	1
		Water Absorption	One Test		1	1
		Specific Gravity	One Test		1	1
		Material finer than 75 micron	One Test		1	1
5	Block(400*150*200)	BLOCK DENSITY	One Test		1	1
		WATER ABSORPTION	One Test		1	1
		DIMENSION ANALYSIS	One Test		1	1
		COMPRESSIVE STRENGTH	One Test		1	1
6	KERB	Core Compressive strength	One Test		1	1
		Corrected Cylinder Compressive strength	One Test		1	1
		Equivalent Cube Compressive strength	One Test		1	1
7	NP3 Pipe	Dimension Analysis	One Test		1	1
		Compressive Strength	One Test		1	1

A.N.D.

Assistant Executive Engineer
Kodigehalli Sub Division
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Bangalore - 560 092

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TEST REPORT OF PHYSICAL PROPERTIES OF CEMENT - 53 Grade

Lab ID	:	**CP-2021-09-24-34** **Date: 17-10-20**
Customer	:	Assistant Executive Engineer, Kodigehalli Sub Division, BBMP, Bangalore.
Address	:	Kodigehalli Sub Division, BBMP, Bangalore.
Project Name	:	Package 02 Includes 2 Works of Rs.133.00 Lakhs 1) Improvements to Drains 1st to 3rd Cross Roads in Amruthanagar A Sector in Ward No.07 Byatarayanapura. Est Cost Rs.85 Lakhs 2) Improvements to Drains From 15th Cross in Jakkur Layout and Construction of Rainwater Units and Desilting of Drains in Ward No.07 Byatarayanapura Est Cost Rs.48.00 Lakhs
Agency	:	Sri. U Ramesh, #12/4th Cross, Sunrise Colony, Cholanayakanahalli, R.T Nagar (P) Bangalore-32
Customer's Reference	:	BBMP/EE/BTP/WO/81/2020-21
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	14-10-20
Sample Type	:	Birla Super 53grade
Reference to BIS codes	:	IS 12269 : 2013, 53 Grade Ordinary Portland cement Specification , IS 4031 (Part 1,2 3,4,5, 6,11):1988 IS 4031 Part 1 DETERMINATION OF FINENESS BY DRY SIEVING, Clause 4.4 IS 4031 Part 2, Determination of Fineness by Blaine Air Permeability Method, Clause 5 IS 4031 Part 3, Determination of Soundness, Clause 5,Clause 6 IS 4031 Part 4, Determination of Consistency of Standard Cement Paste, Clause 5 IS 4031 Part 5, Determination of Initial & Final Setting Time, Clause 5 IS 4031 Part 11,DETERMINATION OF DENSITY , Clause 6
Date of test	:	15-10-20
Environmental Conditions during test	:	Temperature: 26°C Humidity: 72%

Sl.No.	Physical properties	Results	Requirement as per IS 12269: 2013
1	Fineness by dry sieving (%)	2.46	–
2	Finess by Air permeablity method (m^2/kg,Min)	255.8	225m^2/kg, Min
3	Density (gm/cc)	3.12	–
4	Standard Consistency (%)	28.5%	Not specified
5	Initial Setting time	175 minutes	Not less than 30 minutes
6	Final Setting time	280 minutes	Not more than 600 minutes
7	Soundness (Le Chatelier's Method)	1mm	Not more than 10 mm

* The results obtained are satisfactory as per standard requirements.

Note:

The results pertain to the samples received and tested.

All information furnished by Customer/Representative

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Samples will be disposed after 30 days from the date of issue of test certificate

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TEST REPORT OF PHYSICAL PROPERTIES OF CEMENT - 53 Grade

Lab ID	:	**CP-2021-09-24-34** **Date: 12-11-20**
Customer	:	Assistant Executive Engineer, Kodigehalli Sub Division, BBMP, Bangalore.
Address	:	Kodigehalli Sub Division, BBMP, Bangalore.
Project Name	:	Package 02 Includes 2 Works of Rs.133.00 Lakhs 1) Improvements to Drains 1st to 3rd Cross Roads in Amruthanagar A Sector in Ward No.07 Byatarayanapura. Est Cost Rs.85 Lakhs 2) Improvements to Drains From 15th Cross in Jakkur Layout and Construction of Rainwater Units and Desilting of Drains in Ward No.07 Byatarayanapura Est Cost Rs.48.00 Lakhs
Agency	:	Sri. U Ramesh, #12/4th Cross, Sunrise Colony, Cholanayakanahalli, R.T Nagar (P) Bangalore-32
Customer's Reference	:	BBMP/EE/BTP/WO/81/2020-21
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	14-10-20
Sample Type	:	Birla Super 53grade
Reference to BIS codes	:	IS 12269 : 2013, 53 Grade Ordinary Portland cement Specification , IS 4031 Part 4, Determination of Consistency of Standard Cement Paste, Clause 5 IS 4031 Part 6, Determination of Compressive Strength, Clause 6
Date of test	:	15-10-20
Environmental Conditions during test	:	Temperature: 26°C Humidity: 72%

Compressive Strength

Sl.No.	Physical properties	Results	Requirement as per IS 12269: 2013
1	3 Days	28.9N/mm^2	Not less than 27 N/mm^2
2	7 Days	39.2N/mm^2	Not less than 37 N/mm^2
3	28 Days	58.4N/mm^2	Not less than 53 N/mm^2

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TEST REPORT ON COARSE AGGREGATES

Lab ID	:	**CP-2021-09-24-34** **Date: 17-10-20**
Customer	:	Assistant Executive Engineer, Kodigehalli Sub Division, BBMP, Bangalore.
Address	:	Kodigehalli Sub Division, BBMP, Bangalore.
Project Name	:	Package 02 Includes 2 Works of Rs.133.00 Lakhs 1) Improvements to Drains 1st to 3rd Cross Roads in Amruthanagar A Sector in Ward No.07 Byatarayanapura. Est Cost Rs.85 Lakhs 2) Improvements to Drains From 15th Cross in Jakkur Layout and Construction of Rainwater Units and Desilting of Drains in Ward No.07 Byatarayanapura Est Cost Rs.48.00 Lakhs
Agency	:	Sri. U Ramesh, #12/4th Cross, Sunrise Colony, Cholanayakanahalli, R.T Nagar (P) Bangalore-32
Customer's Reference	:	BBMP/EE/BTP/WO/81/2020-21
Source of Sample	:	Sample supplied by Agency
Sample condition	:	Satisfactory
Date of Receipt	:	14-10-20
Sample Type	:	40mm down size coarse aggregate
Reference to BIS codes	:	IS: 383:2016 (Specification for Coarse and fine Aggregates) IS: 2386 :1963(Part - 1,3,4) RA2011 IS 2386 Part 1: Particle Size and Shape IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption IS 2386 Part 4: Mechanical Properties
Date of test	:	14-10-20

SIEVE ANALYSIS (PARTICLE SIZE DISTRIBUTION) OF 40MM DOWN COARSE AGGREGATE:

Total weight taken : 15000 grams

Sample No.	Sieve No.	Weight Retained in gms	Cumulative Weight Retained in gms	% Cumulative Weight Retained	% Passing	Required as per IS 383:2016
1	80 mm	0	0	0.0	100	100
2	40 mm	234	234	1.6	98.4	90-100
3	20 mm	5334	5568	37.1	62.9	30-70
4	10 mm	4788	10356	69.0	31.0	10-35
5	4.75 mm	4354	14710	98.1	1.9	0-5
6	Pan	290	15000	100.0	0	---

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TEST REPORT ON COARSE AGGREGATES

Lab ID : **CP-2021-09-24-34** **Date: 17-10-20**

PHYSICAL PROPERTIES

Sl.no	Tests	Result	Requirements as per IS:383-2016
1	Flakiness Index(%)	12.2	Combined Flakiness & Elongation Index Shall not Exceed 40% for Uncrushed & Crushed Aggregate
2	Elongation Index(%)	11.6	
3	Specific Gravity	2.69	_
4	Bulk Density(Loose) (Kg/l)	1.54	_
5	Bulk Density(Compacted) (Kg/l)	1.58	_
6	Water Absorption(%)	0.24	_

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Note:

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TEST REPORT ON COARSE AGGREGATES

Lab ID	:	**CP-2021-09-24-34** **Date: 17-10-20**
Customer	:	Assistant Executive Engineer, Kodigehalli Sub Division, BBMP, Bangalore.
Address	:	Kodigehalli Sub Division, BBMP, Bangalore.
Project Name	:	Package 02 Includes 2 Works of Rs.133.00 Lakhs 1) Improvements to Drains 1st to 3rd Cross Roads in Amruthanagar A Sector in Ward No.07 Byatarayanapura. Est Cost Rs.85 Lakhs 2) Improvements to Drains From 15th Cross in Jakkur Layout and Construction of Rainwater Units and Desilting of Drains in Ward No.07 Byatarayanapura Est Cost Rs.48.00 Lakhs
Agency	:	Sri. U Ramesh, #12/4th Cross, Sunrise Colony, Cholanayakanahalli, R.T Nagar (P) Bangalore-32
Customer Reference	:	BBMP/EE/BTP/WO/81/2020-21
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	14-10-20
Sample Type/ Size	:	20mm down size coarse aggregate
Reference to BIS codes	:	IS: 383:2016 (Specification for Coarse and fine Aggregates) IS: 2386 :1963(Part - 1,3,4) RA2011 IS 2386 Part 1: Particle Size and Shape IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption IS 2386 Part 4: Mechanical Properties
Date of test	:	14-10-20

SIEVE ANALYSIS (PARTICLE SIZE DISTRIBUTION) OF 20MM DOWN COARSE AGGREGATE:

Total weight taken : 5000 grams

Sample No.	Sieve No.	Weight Retained in gms	Cumulative Weight Retained in gms	% Cumulative Weight Retained	% Passing	Required as per IS 383:2016
1	40 mm	0	0	0	100	100
2	20 mm	245	245	4.9	95.1	90-100
3	10 mm	2675	2920	58.4	41.6	25-55
4	4.75 mm	1798	4718	94.4	5.6	0-10
5	Pan	282	5000	100	0	--

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TEST REPORT ON COARSE AGGREGATES

Lab ID : **CP-2021-09-24-34** **Date: 17-10-20**

PHYSICAL PROPERTIES

Sl.no	Tests	Result	Requirements as per IS:383-2016
1	Flakiness Index(%)	11.4	Combined Flakiness & Elongation Index Shall not Exceed 40% for Uncrushed & Crushed Aggregate
2	Elongation Index(%)	11.2	
3	Specific Gravity	2.64	_
4	Bulk Density(Loose) (Kg/l)	1.52	_
5	Bulk Density(Compacted) (Kg/l)	1.56	_
6	Water Absorption(%)	0.24	_
7	Aggregate crushing Value(%)	22.6	Max 30% for Aggregates to be used in concrete for wearing Surface. In case Aggregate Crushing Value Exceeds 30% then the test for ten percent fines should be conducted for Aggregates to be used in concrete other than for wearing Surface.
8	Aggregate Impact Value(%)	21.8	30% for Aggregates to be used in concrete for wearing Surface. 45% for Aggregates to be used in concrete other than for wearing Surface.

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TEST REPORT OF FINE AGGREGATE

Lab ID : **CP-2021-09-24-34** **Date: 17-10-20**

Customer : Assistant Executive Engineer, Kodigehalli Sub Division, BBMP, Bangalore.

Address : Kodigehalli Sub Division, BBMP, Bangalore.

Project Name : Package 02 Includes 2 Works of Rs.133.00 Lakhs 1) Improvements to Drains 1st to 3rd Cross Roads in Amruthanagar A Sector in Ward No.07 Byatarayanapura. Est Cost Rs.85 Lakhs 2) Improvements to Drains From 15th Cross in Jakkur Layout and Construction of Rainwater Units and Desilting of Drains in Ward No.07 Byatarayanapura Est Cost Rs.48.00 Lakhs

Agency : Sri. U Ramesh, #12/4th Cross, Sunrise Colony, Cholanayakanahalli, R.T Nagar (P) Bangalore-32

Customer's Reference : BBMP/EE/BTP/WO/81/2020-21

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 14-10-20

Sample Type : Fine Aggregate

Reference to BIS codes : IS 383 : 2016 (Specification for Coarse and fine Aggregates)
IS: 2386 :1963(Part - 1, 3) RA2012
IS 2386 Part 1: Particle Size and Shape
IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption

Date of test : 14-10-20

Total weight taken : 1000 grams

Sl.no	Sieve Size	Weight Retained (gms)	Cumulative Weight Retained (gms)	% Cumulative Weight Retained	% Passing	Requirement as per IS 383:2016			
						Grading Zone I	Grading Zone II	Grading Zone III	Grading Zone IV
1	10 mm	0	0	0.0	100.0	100	100	100	100
2	4.75 mm	27	27	2.7	97.3	90-100	90-100	90-100	95-100
3	2.36 mm	55	82	8.2	91.8	60-95	75-100	85-100	95-100
4	1.18 mm	239	321	32.1	67.9	30-70	55-90	75-100	90-100
5	600 micron	205	526	52.6	47.4	15-34	35-59	60-79	80-100
6	300 micron	203	729	72.9	27.1	5-20	8-30	12-40	15-50
7	150 micron	191	920	92.0	8.0	0-10	0-10	0-10	0-15
8	Pan	80	1000	100.0	0.0	---	---	---	---
Result :The tested Sample Conforms to Grading Zone II									

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TEST REPORT OF FINE AGGREGATE

Lab ID : **CP-2021-09-24-34** **Date: 17-10-20**

PHYSICAL PROPERTIES

Sl.no	Tests	Result	Requirements as per IS 383:2016
1	Water Absorption(%)	1.5	–
2	Specific Gravity	2.59	–
3	Material finer than 75 micron(%)	6.9	Uncrushed fine Aggregate Max 3%, Crushed Fine aggregate Max 15%, Mixed Fine aggregate Max 12%, Manufactured Fine aggregate Max 10%

* The results obtained are satisfactory as per standard requirements.

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Quality Manager

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Format No: CP/TF/01

TEST REPORT ON PHYSICAL REQUIREMENTS OF SOLID CONCRETE BLOCKS

Lab ID	:	**CP-2021-09-24-34** **Date: 28-11-20**
Customer	:	Assistant Executive Engineer, Kodigehalli Sub Division, BBMP, Bangalore.
Address	:	Kodigehalli Sub Division, BBMP, Bangalore.
Project Name	:	Package 02 Includes 2 Works of Rs.133.00 Lakhs 1) Improvements to Drains 1st to 3rd Cross Roads in Amruthanagar A Sector in Ward No.07 Byatarayanapura. Est Cost Rs.85 Lakhs 2) Improvements to Drains From 15th Cross in Jakkur Layout and Construction of Rainwater Units and Desilting of Drains in Ward No.07 Byatarayanapura Est Cost Rs.48.00 Lakhs
Agency	:	Sri. U Ramesh, #12/4th Cross, Sunrise Colony, Cholanayakanahalli, R.T Nagar (P) Bangalore-32
Customer's Reference	:	BBMP/EE/BTP/WO/81/2020-21
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	24-11-20
Sample Type/Size	:	Solid concrete blocks size (400X150X200)mm
Reference to BIS codes	:	IS : 2185 (Part 1) : 2005(RA 2010) Concrete Masonry Specification Part 1:Hollow and Solid Concrete Blocks (Dimensions -Annex-B, Clause 9.2 and 10 , Block density Annex -C Clause 9.3 and10, Compressive strength Annex -D Clause 9.4 and 10, Water absorption Annex -E Clause 9.5 and 10)
Date of test	:	24-11-20

BLOCK DENSITY:

Sl. No.	Measurement of overall Dimensions of Individual Blocks			Overall Volume of the Block in Cubic Centimetres	Weight of Oven Dried Block in Kilograms to the nearest 10 Gram	Block Density in Kg/cum*10^6	Avg.Block Density in (Kg/cum)	As per IS 2185(Part 1) :2005 (RA 2010)
	Length	Breadth	Height					
	mm	mm	mm	(Cm^3)	Kg	Kg/m^3	Kg/m^3	
1	400	152	202	12282	23.806	1938.3	1845.8	Not less than 1800Kg/m^3
2	401	151	201	12171	22.389	1839.5		
3	401	153	201	12332	21.697	1759.4		

WATER ABSORPTION:

Sl. No.	Wet weight after water absorption	Dry weight (Oven dry)	Water Absorption	Avg.Water Absorption	As per IS 2185(Part 1):2005 (RA 2010)
	kg	kg	%	%	
1	33.91	32.25	4.89	4.25	Shall not be more than 10% by mass
2	33.57	32.14	4.28		
3	33.44	32.24	3.59		

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Lab ID : **CP-2021-09-24-34** **Date: 28-11-20**

DIMENSION ANALYSIS

Sl.no	Length mm	Breadth mm	Height mm	Requirement as per IS 2185(Part 1):2005
1	401	153	202	
2	402	151	202	
3	400	152	199	
4	404	149	203	
5	403	152	201	
6	401	151	199	
7	401	150	202	
8	401	151	200	
9	400	151	203	
10	401	149	202	
11	400	151	199	**Length : ± 5mm** **Breadth : ± 3mm** **Height : ± 3mm**
12	399	151	199	
13	404	151	203	
14	399	150	203	
15	403	152	202	
16	404	150	201	
17	402	152	200	
18	400	153	199	
19	402	149	202	
20	399	153	203	
Average of 20	**401**	**151**	**201**	

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Lab ID : **CP-2021-09-24-34** **Date: 28-11-20**

COMPRESSIVE STRENGTH:

Sl. No.	Size of solid block		Area	Failure Load	Compressive strength	Average Compressive strength
	Length	Breadth				
	mm	mm	(mm^2)	(KN)	N/mm^2	(N/mm^2)
1	400	153	61144	285.8	4.7	4.7
2	402	151	60772	286.9	4.7	
3	400	152	60668	283.4	4.7	
4	404	149	60361	290.5	4.8	
5	403	152	61435	285.2	4.6	
6	401	151	60555	288.5	4.8	
7	401	150	60294	287.1	4.8	
8	401	151	60607	287.1	4.7	

As per IS Requirements (Table 2, Clause 5.1, 5.2 and 9.4)

Compressive strength		
Grade	**Minimum average**	**Minimum Individual units.**
C (5.0)	5.00 N/mm^2	4.00 N/mm^2
C (4.0)	4.00 N/mm^2	3.20 N/mm^2

* The Results Obtained are Satisfactory as per Standard Requirements

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TEST REPORT OF CEMENT CONCRETE KERB STONE

Lab ID	:	**CP-2021-09-24-34** **Date: 19-12-20**
Customer	:	Assistant Executive Engineer, Kodigehalli Sub Division, BBMP, Bangalore.
Address	:	Kodigehalli Sub Division, BBMP, Bangalore.
Project Name	:	Package 02 Includes 2 Works of Rs.133.00 Lakhs 1) Improvements to Drains 1st to 3rd Cross Roads in Amruthanagar A Sector in Ward No.07 Byatarayanapura. Est Cost Rs.85 Lakhs 2) Improvements to Drains From 15th Cross in Jakkur Layout and Construction of Rainwater Units and Desilting of Drains in Ward No.07 Byatarayanapura Est Cost Rs.48.00 Lakhs
Agency	:	Sri. U Ramesh, #12/4th Cross, Sunrise Colony, Cholanayakanahalli, R.T Nagar (P) Bangalore-32
Customer's Reference	:	BBMP/EE/BTP/WO/81/2020-21
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	15-12-20
Sample Type /Size	:	CC Kerb Stone/ 450*200*400mm
Reference to BIS codes	:	IS: 516 - 1959 Methods of Tests for Strength of Concrete
Date of test	:	15/12/2020

Sl. No.	Identification Mark	Diameter of the core	Height of the core	Weight of the core	Area	Failure Load	Core Compressive strength	Corrected Cylinder Compressive strength	Equivalent Cube Compressive strength
		(mm)	(mm)	Kg	(Sq.mm)	(KN)	(N/mm2)	(N/mm2)	(N/mm2)
1	A	150.01	200.51	3.164	17670	322.1	18.2	18.2	22.8
2	B	150.03	200.49	3.193	17675	325.2	18.4	18.4	23.0
3	C	150.01	200.50	3.115	17670	329.1	18.6	18.6	23.3

* The results obtained are satisfactory as per standard requirements.

Note:

The results pertain to the samples received and tested.
All information furnished by Customer/Representative
Any correction in the report will make this report invalid
This report without prior written approval should not be reproduced or published in full or part.
Samples will be disposed after 30 days from the date of issue of test certificate

Assistant Executive Engineer
Kodigehalli Sub Division
Bruhat Bangalore Mahanagara Pa
Bangalore - 560 032

CIVIL PRO Date .... BANGALORE

FOR CIVIL Pro.

R KARTHIK RECHAN
Authorized Signatory
Quality Manager

****End of Report****

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Format No: CP/TF/01

TEST REPORT ON NP3 RCC PIPES

Lab ID	:	**CP-2021-09-24-34** **Date: 03-12-20**
Customer	:	Assistant Executive Engineer, Kodigehalli Sub Division, BBMP, Bangalore.
Address	:	Kodigehalli Sub Division, BBMP, Bangalore.
Project Name	:	Package 02 Includes 2 Works of Rs.133.00 Lakhs 1) Improvements to Drains 1st to 3rd Cross Roads in Amruthanagar A Sector in Ward No.07 Byatarayanapura. Est Cost Rs.85 Lakhs 2) Improvements to Drains From 15th Cross in Jakkur Layout and Construction of Rainwater Units and Desilting of Drains in Ward No.07 Byatarayanapura Est Cost Rs.48.00 Lakhs
Agency	:	Sri. U Ramesh, #12/4th Cross, Sunrise Colony, Cholanayakanahalli, R.T Nagar (P) Bangalore-32
Customer's Reference	:	BBMP/EE/BTP/WO/81/2020-21
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	07-11-20
Sample Type/Size	:	NP3 RCC Pipe
Reference to BIS codes	:	IS 458:2003
Date of test	:	03-12-20

DIMENSION ANALYSIS

Sl.no	Length mm	Diameter mm	Thickness mm	Requirement as per IS 458:2003
1	2498	751	91	Length : ± 25mm Diameter : ± 10mm Height : +6mm/-3mm
2	2510	750	92	
3	2498	751	92	
4	2500	752	90	
5	2500	750	89	
6	2498	750	90	
7	2497	751	91	
8	2500	750	90	
9	2500	754	90	
10	2500	750	90	

CIVIL PRO Date ..... BANGALORE

Lab ID : **CP-2021-09-24-34** **Date: 03-12-20**

COMPRESSIVE STRENGTH:

Sl. No.	cube		Area (mm^2)	Failure Load (KN)	Compressive strength N/mm^2	Remark
	D.O.C	D.O.T				
1	05-11-20	03-12-20	22150	789	35.6	Mix (M35) 28 Days
2	05-11-20	03-12-20	22350	791	35.4	
3	05-11-20	03-12-20	22400	786	35.1	

* The results obtained are satisfactory as per standard requirements.

Note:

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CIVIL Pro Co.... Date ..... BANGALORE

FOR CIVIL Pro.

R KARTHIK RECHAN
Authorized Signatory
Quality Manager

Assistant Executive Engineer
Kodigehalli Sub Division
Bruhat Bangalore Mahanagara Palike
Bangalore - 560 092

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****End of Report****